

## MONITOR WELL PRE-SPUD PROPOSAL

- 1) WELL NAME/NUMBER: ST-4 (Medium)
- 2) PROPOSED LOCATION: (a) General (on or off-site) Off-site  
(attach map)                      Site Area State Land Section  
(b)    Sect 32    Twnshp 20S    Rng 3E    SW ¼ SE ¼ NE ¼ NW ¼
- 3) WELL PARAMETERS:
  - (a)    Est. total depth 600 (ft)    (b) Est. ground elevation @4430 ft
  - (c)    Anticipated stratigraphy:  
         Alluvium (Santa Fe Group)                      from 0 ' to TD ' (depth)  
         \_\_\_\_\_ from \_\_\_\_\_ ' to \_\_\_\_\_ ' (depth)
  - (d)    Anticipated water bearing horizon(s):  
         Alluvium (Santa Fe Group)                      at 475 ' (depth)  
         \_\_\_\_\_ at \_\_\_\_\_ ' (depth)
  - (e)    Anticipated static water level 425 ' (depth)
- 4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):  
To determine groundwater quality deeper in the alluvial aquifer in relation to  
ST-4-481. Location is within the Western Boundary Fault (WBF) zone.  
\_\_\_\_\_
- 5) PROPOSED DRILLING PARAMETERS:
  - (a)    Drilling method(s): (air/foam/mud rotary/auger/etc.)  
         Mud Rotary                      from 0 ' to 100 ' (max)  
         Air-Foam Rotary                      from 100 ' to TD ' (depth)

Air-foam method: "Quik-Foam" surfactant/water mixture used in conjunction with filtered compress air.

Mud-rotary method: Bentonite mud/water mixture.

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- (b) Lithology sampling - collect sample every:

5' intervals Method Grab from 0 ' to TD ' (depth)  
Core type 6" Dennison from \_\_\_\_\_ ' to \_\_\_\_\_ ' (depth)  
2" Christiansen from \_\_\_\_\_ ' to \_\_\_\_\_ ' (depth)

- (c) Anticipated drilling additive(s): EZ-mud (if needed)

7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

(a)	Casing:	<u>Material</u>	<u>Diameter</u>	<u>From</u>	<u>To</u>	<u>Comments</u>
	Temporary	_____	_____	_____	_____	
	Surface	_____	<u>10"</u>	<u>0</u>	<u>100' max</u>	
	Screen (10')	<u>Stainless ++</u>	<u>4"</u>	<u>**</u>		<u>0.02"</u>

Completion Pipe stainless + 4" 0 TD \*

Standard material: Blank riser, silt trap, locking cap

N/A Data not available at this time

\* for deep completions (450 feet or more)

\*\* to be determined from geophysical logs

+ Type 304, Schedule 5 stainless steel  
Type 304, Schedule 10 stainless steel

++ Regular strength screen, extra strength screen used below 450 feet

- (b) Filter pack: Standard 8/20 and 16/40 sand and bentonite plug(s), grout to surface.

8) PROPOSED WELL DEVELOPMENT


- (a) Surge and bail with surge block and bailer.

- (b) Pump with submersible pump until parameters stabilize.

9) WELL AUTHORIZATION

- (a) Proposed by Geoscience Consultants, Ltd.

- (b) Authorized William E. Waldrip NASA  
(name) (representing)

 5/6/92  
(signature)

# NASA-WSTF WELL LOCATIONS

